

2006-00494

# KENTUCKY PUBLIC SERVICE COMMISSION

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## Electric Distribution Utility Annual Reliability Report MAR 30 2011

### SECTION 1: CONTACT INFORMATION

PUBLIC SERVICE  
COMMISSION

|                            |     |   |
|----------------------------|-----|---|
| UTILITY NAME               | 1.1 | Cumberland Valley Electric                  |
| REPORT PREPARED BY         | 1.2 | Jonathan Grove                              |
| E-MAIL ADDRESS OF PREPARER | 1.3 | <u>jonathan.grove@cumberlandvalley.coop</u> |
| PHONE NUMBER OF PREPARER   | 1.4 | <u>606-258-2245</u>                         |

### SECTION 2: REPORT YEAR

|                         |     |             |
|-------------------------|-----|-------------|
| CALENDAR YEAR OF REPORT | 2.1 | <u>2010</u> |
|-------------------------|-----|-------------|

### SECTION 3: MAJOR EVENT DAYS

|   |                  |     |               |
|---|------------------|-----|---------------|
|   | T <sub>MED</sub> | 3.1 | <u>14.97</u>  |
| FIRST DATE USED TO DETERMINE T <sub>MED</sub> |                  | 3.2 | <u>1/1/05</u> |
| LAST DATE USED TO DETERMINE T <sub>MED</sub>  |                  | 3.3 | <u>1/1/09</u> |
| NUMBER OF MED IN REPORT YEAR                  |                  | 3.4 | <u>1</u>      |

NOTE: Per IEEE 1366 T<sub>MED</sub> should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

### SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

|       |     |              |
|-------|-----|--------------|
| SAIDI | 4.1 | <u>110.8</u> |
| SAIFI | 4.2 | <u>1.31</u>  |
| CAIDI | 4.3 | <u>84.44</u> |

Including MED (Optional)

|       |     |               |
|-------|-----|---------------|
| SAIDI | 4.4 | <u>128.06</u> |
| SAIFI | 4.5 | <u>1.35</u>   |
| CAIDI | 4.6 | <u>94.67</u>  |

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of April of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T<sub>MED</sub>

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### SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

| CAUSE CODE<br>DESCRIPTION | SAIDI<br>VALUE | CAUSE CODE<br>DESCRIPTION | SAIFI<br>VALUE |
|---------------------------|----------------|---------------------------|----------------|
| Trees 5.1.1               | 38.4           | Trees 5.2.1               | 0.47           |
| Power Supply 5.1.2        | 25.92          | Power Supply 5.2.2        | 0.44           |
| Planned 5.1.3             | 23.78          | Planned 5.2.3             | 0.16           |
| Equipment Failure 5.1.4   | 10.87          | Equipment Failure 5.2.4   | 0.11           |
| Vehicle Accident 5.1.5    | 5.79           | Vehicle Accident 5.2.5    | 0.045          |
| Storm 5.1.6               | 2.11           | Storm 5.2.6               | 0.034          |
| Lightning 5.1.7           | 1.49           | Fire 5.2.7                | 0.022          |
| Fire 5.1.8                | 1.46           | Animals 5.2.8             | 0.013          |
| Animals 5.1.9             | 0.8            | Lightning 5.2.9           | 0.01           |
| Construction 5.1.10       | 0.11           | Construction 5.2.10       | 0.0018         |

### SECTION 6: WORST PERFORMING CIRCUITS

| CIRCUIT IDENTIFIER     | SAIDI<br>VALUE | MAJOR OUTAGE CATEGORY |
|------------------------|----------------|-----------------------|
| PINE MOUNTAIN 6.1.1    | 831.18         | Planned               |
| BLED SOE 6.1.2         | 370.23         | Planned               |
| JELICO CREEK 6.1.3     | 272.13         | Power Supply          |
| CARPENTER 6.1.4        | 187.59         | Trees                 |
| ROCKHOLDS 6.1.5        | 182.51         | Power Supply          |
| OVEN FORK 6.1.6        | 120.53         | Trees                 |
| SOUTH CORBIN 6.1.7     | 110.1          | Trees                 |
| CUMBERLAND FALLS 6.1.8 | 109.95         | Power Supply          |
| CHAD 6.1.9             | 95.79          | Trees                 |
| HINKLE 6.1.10          | 53.99          | Trees                 |

| CIRCUIT IDENTIFIER     | SAIFI<br>VALUE | MAJOR OUTAGE CATEGORY |
|------------------------|----------------|-----------------------|
| PINE MOUNTAIN 6.2.1    | 4.62           | Planned               |
| BLED SOE 6.2.2         | 3.92           | Trees                 |
| JELICO CREEK 6.2.3     | 3.8            | Power Supply          |
| ROCKHOLDS 6.2.4        | 3.27           | Power Supply          |
| OVEN FORK 6.2.5        | 2.61           | Trees                 |
| CARPENTER 6.2.6        | 1.72           | Trees                 |
| CUMBERLAND FALLS 6.2.7 | 1.66           | Power Supply          |
| CHAD 6.2.8             | 1.23           | Trees                 |
| GOLDBUG 6.2.9          | 1.06           | Power Supply          |
| BACON CREEK 6.2.10     | 1.04           | Storm                 |

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Additional pages may be attached as necessary

### SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

CVECC has 1,917 total miles of primary and 947 miles of secondary for a total of 2,864 miles of line.

In 2010

289.5 miles of line were trimmed.

147.5 miles were sprayed

298.4 miles were bush hogged

A total of 735.4 miles were subject to vegetation control of some type.

Additionally 59 miles of line were again trimmed after bush hogging based on inspection of the vegetation.

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### SECTION 8: UTILITY COMMENTS